

Section 71 – Airport Underground Electrical Ducts and Conduit  
(FAA L-110)

Black text – from standard FAA spec

Blue text – additions to FAA standard spec

~~Strikeout text~~ – deletions from FAA standard spec

Red text – notes to the Engineer/won't appear in spec

**I. DESCRIPTION**

A. GENERAL

1. This item shall consist of underground electrical conduits and duct banks

**II. EQUIPMENT AND MATERIALS**

A. GENERAL

1. All equipment and materials shall be subject to acceptance through manufacturer's certification
2. Manufacturer's certifications shall not relieve the Contractor of responsibility
3. All materials and equipment shall be submitted to the Engineer for approval
4. The data submitted shall be sufficient, to determine compliance with the plans
5. All equipment and materials shall be guaranteed against defects for a period of at least twelve (12) months

B. ~~STEEL CONDUIT~~

1. ~~Rigid galvanized steel conduit and fittings~~

C. PLASTIC CONDUIT

1. Plastic conduit and fittings shall conform to the requirements of Fed. Spec. W--C-1094.
  - a) Type I--Schedule 40 PVC
  - b) Type II--Schedule 40 PVC

Non-metallic conduit and fittings shall conform to the requirements of Fed. Spec. W-C-1094 and shall be Type II, Schedule 40

D. SPLIT CONDUIT

1. Split conduit shall be pre-manufactured

E. CONDUIT SPACERS

1. Conduit spacers shall be prefabricated

F. CONCRETE

1. Concrete encasement with red dye shall conform to Section 54.

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G. FLOWABLE BACKFILL

1. Flowable material shall conform to [Section 24 of these specifications](#)

H. DETECTABLE WARNING TAPE

1. [Red detectable conduit marker tape shall be inert polyethylene plastic](#)

I. DUCT MARKERS

1. [The location of duct bank terminations shall be marked by a concrete slab marker 2 ft square](#)

J. GROUND ROD INSPECTION PITS USED AS DUCT MARKERS

1. [Ground rod inspection pits may be used as the required cable markers](#)

K. CONDUIT PULLING LUBRICANT

1. [Thomas and Betts, Kopr-Kote or approved equal](#)

**III. CONSTRUCTION METHODS**

A. GENERAL

1. The Contractor shall install underground duct banks and conduits at the approximate locations indicated on the plans

B. DUCT BANKS

1. Unless otherwise shown in the plans, duct banks shall be installed so that the top of the concrete envelope is not less than 18 inches

~~C. CONDUITS WITHOUT CONCRETE ENCASEMENT~~

- ~~1. [Trenches for single conduit lines](#)~~

D. MARKERS

1. The location of each end of duct banks shall be marked by a concrete slab marker

~~E. BACKFILLING FOR CONDUITS~~

- ~~1. [For conduits, 8 inches](#)~~

F. BACKFILLING FOR DUCTBANKS

1. After the concrete has cured, the remaining trench shall be backfilled

G. RESTORATION

1. Where sod has been removed, it shall be replaced

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**IV. METHOD OF MEASUREMENT**

1. Duct bank or conduit shall be measured by the number of linear feet

**V. BASIS OF PAYMENT**

1. Payment will be made at the contract unit price

**VI. MATERIAL REQUIREMENTS**

- A. Fed.Spec.W-C-1094
- ~~B. Underwriters Laboratories Standard 6~~
- C. Underwriters Laboratories Standard 514B
- ~~D. Underwriters Laboratories Standard 651~~
- E. Underwriters Laboratories Standard 651A

**END OF SECTION 71**